TO6T20" 59260660

FIGURE 1

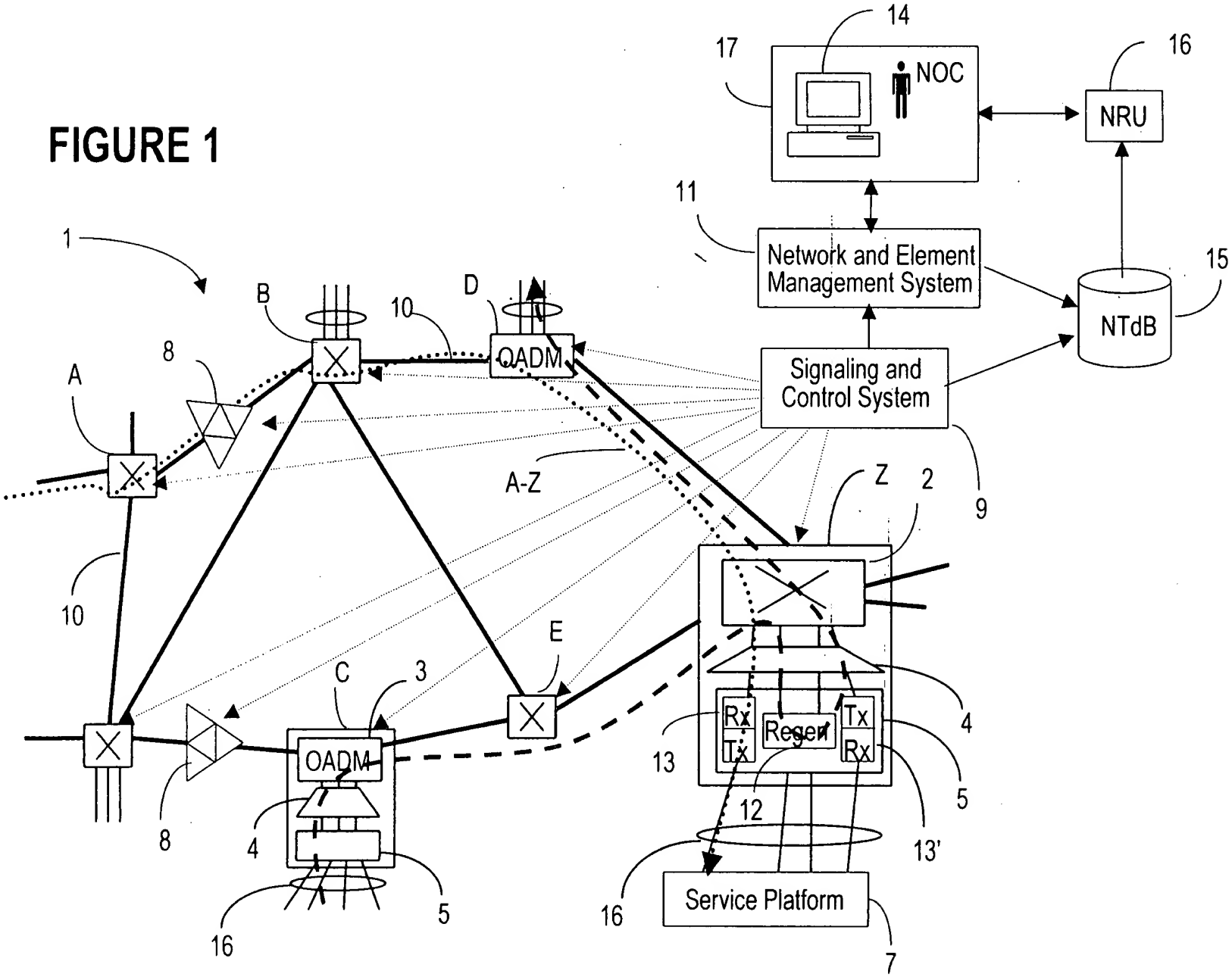


FIGURE 2

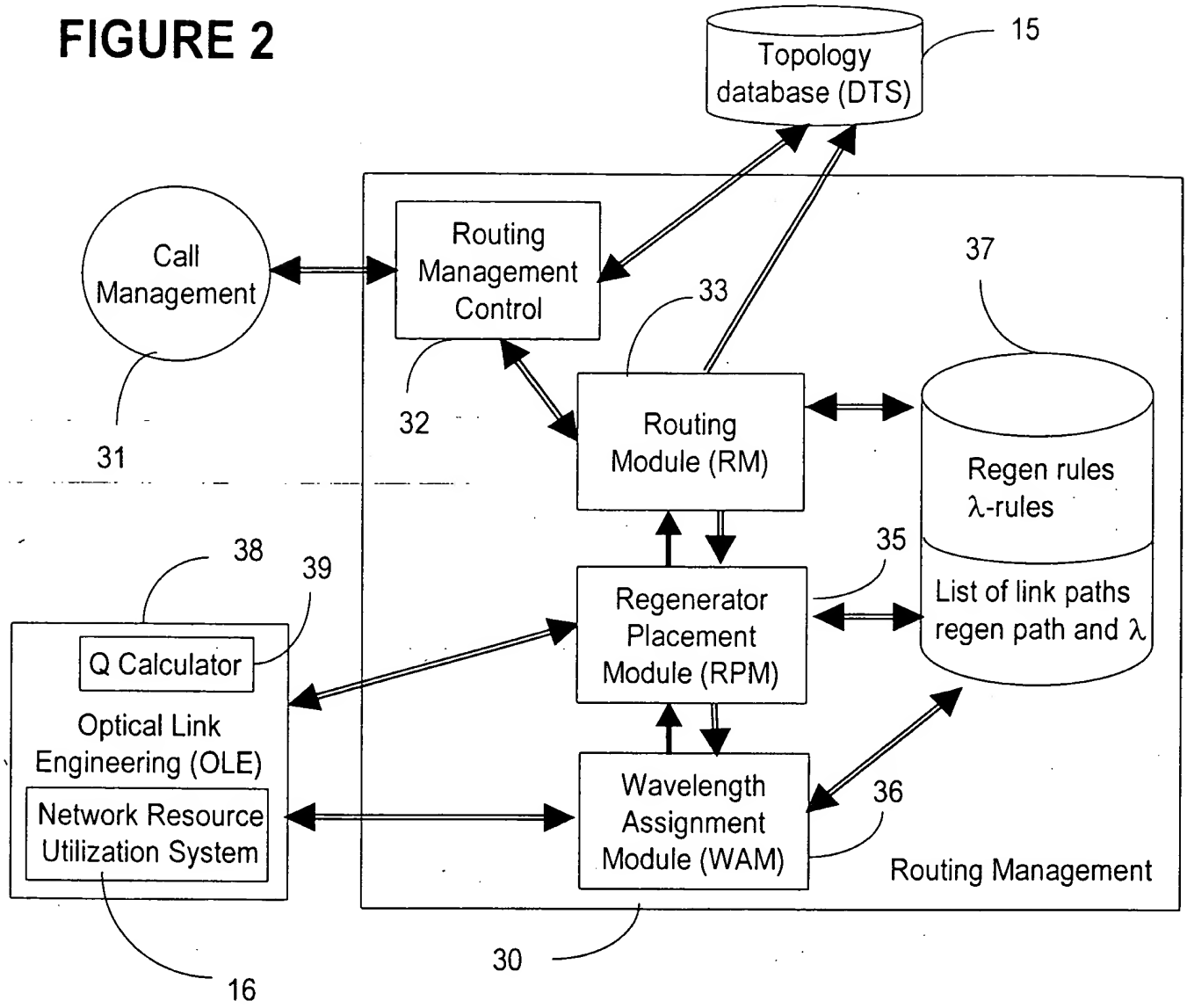
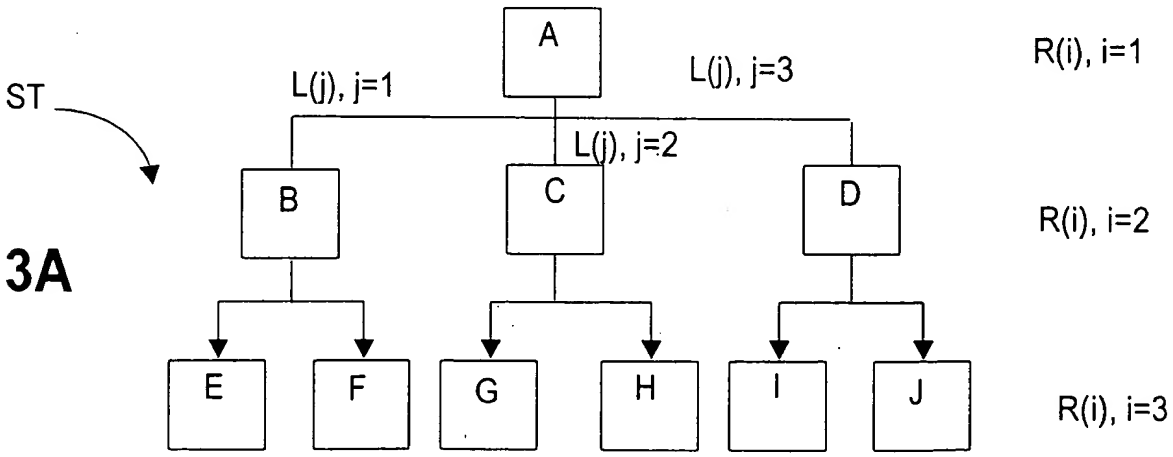


FIGURE 3A



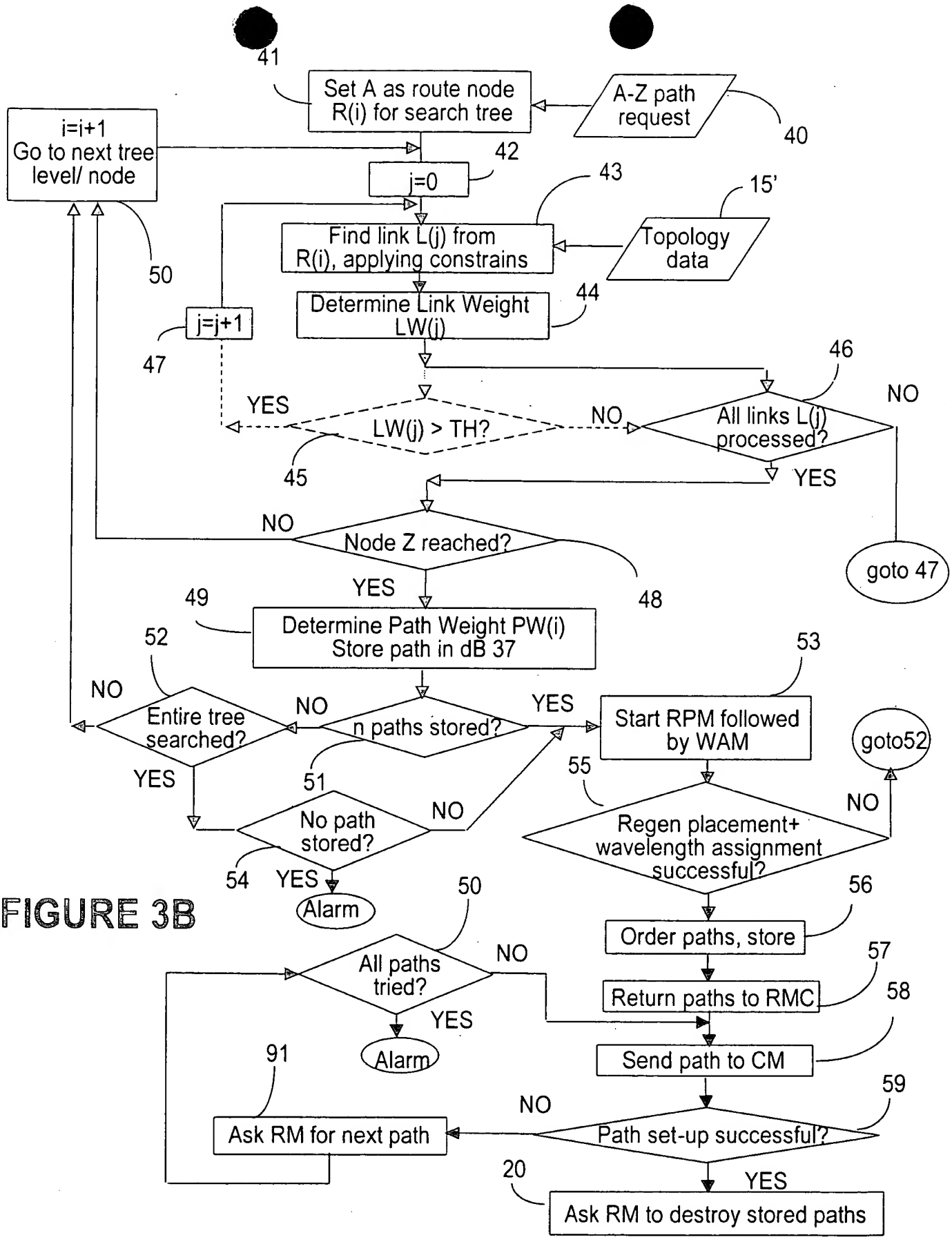
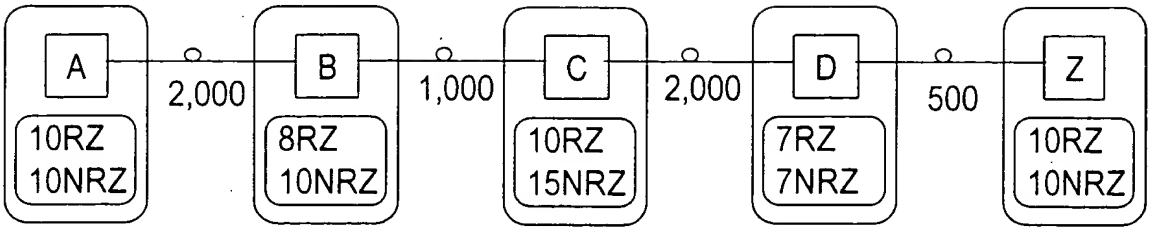

41
Set A as route node R(i) for search tree
A-Z path request
40
i=i+1 Go to next tree level/ node
42
j=0
43
15'
Find link L(j) from R(i), applying constrains
Topology data
50
Determine Link Weight LW(j)
44
j=j+1
47
46
YES
LW(j) > TH?
NO
All links L(j) processed?
NO
45
YES
NO
Node Z reached?
goto 47
48
YES
49
Determine Path Weight PW(i) Store path in dB 37
52
53
NO
Entire tree searched?
NO
n paths stored?
YES
Start RPM followed by WAM
goto52
YES
51
55
No path stored?
NO
Regen placement+ wavelength assignment successful?
NO
54
YES
Alarm
50
56
Order paths, store
All paths tried?
NO
57
Return paths to RMC
YES
58
Alarm
Send path to CM
91
59
NO
Ask RM for next path
Path set-up successful?
20
YES
Ask RM to destroy stored paths

FIGURE 3B

FIGURE 4A



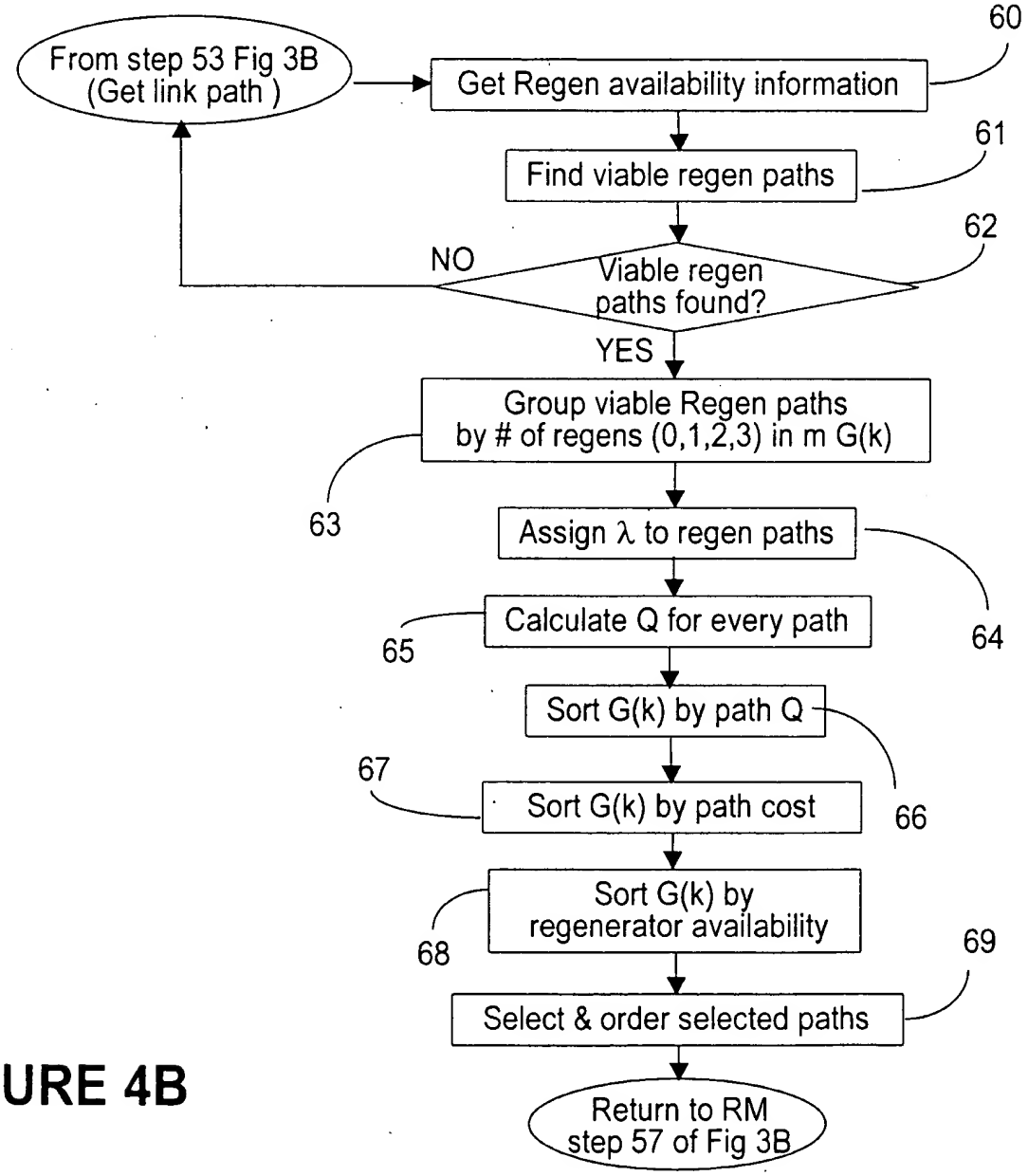


FIGURE 4B

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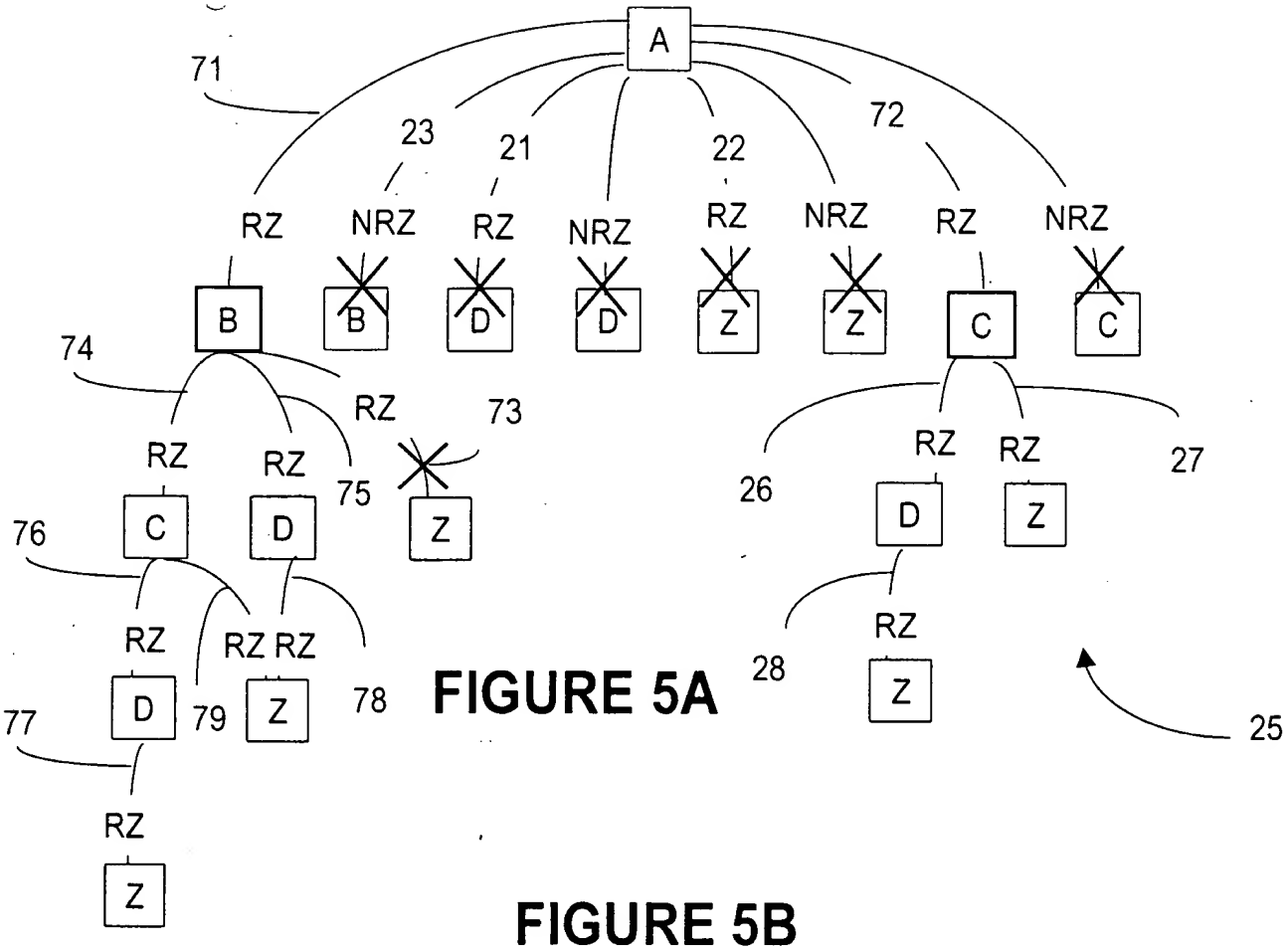
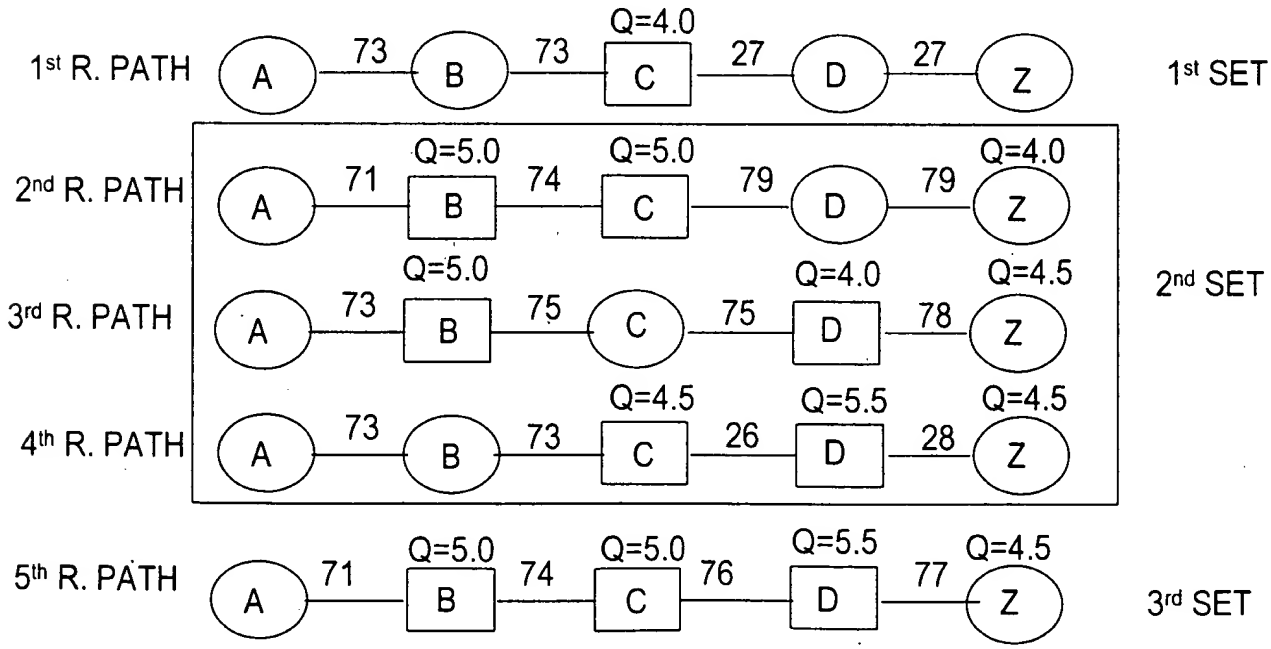


FIGURE 5A

FIGURE 5B



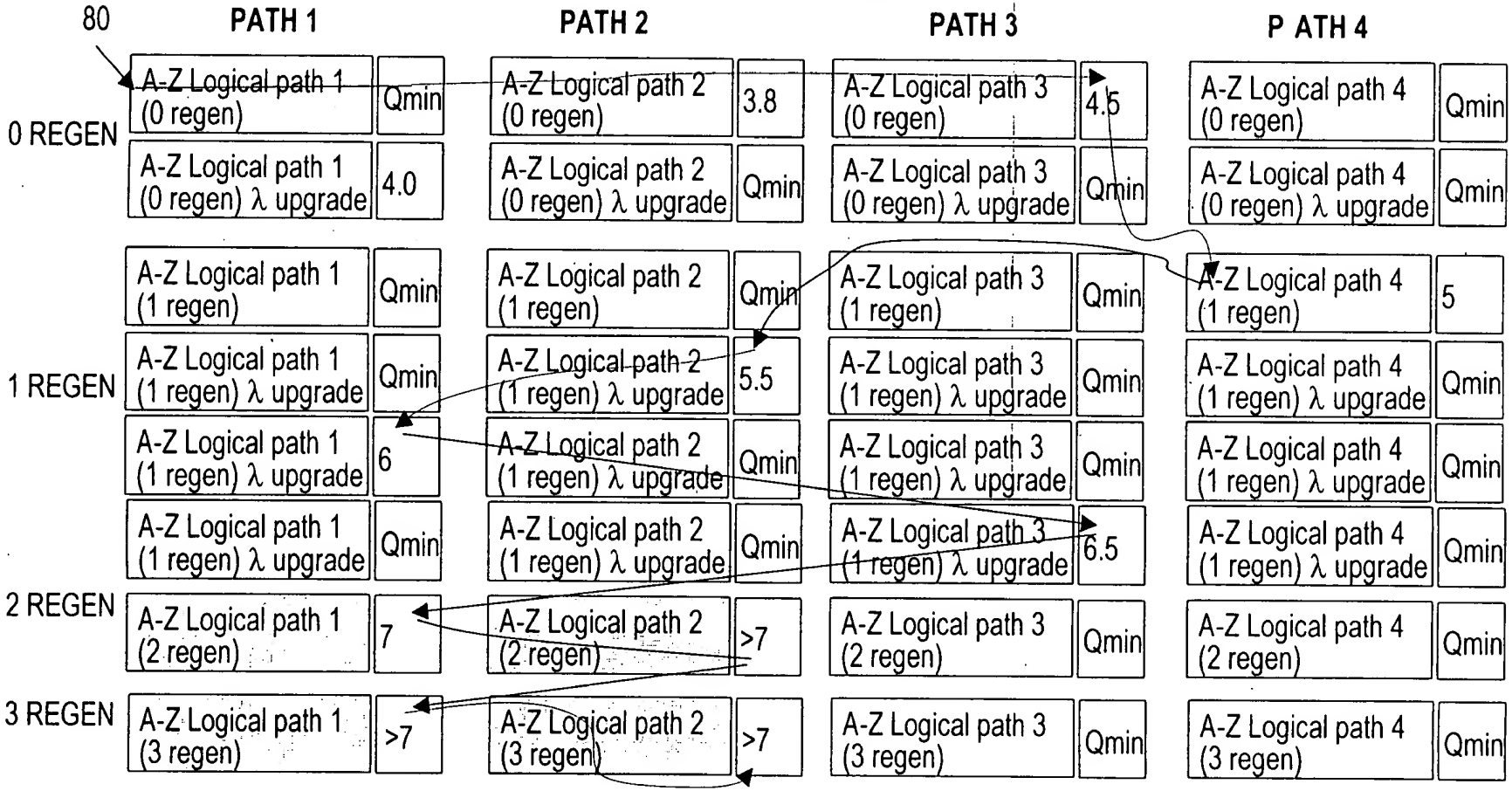

80
PATH 1
PATH 2
PATH 3
P ATH 4
0 REGEN
1 REGEN
2 REGEN
3 REGEN
A-Z Logical path 1 (0 regen)
Qmin
A-Z Logical path 2 (0 regen)
3.8
A-Z Logical path 3 (0 regen)
4.5
A-Z Logical path 4 (0 regen)
Qmin
A-Z Logical path 1 (0 regen) λ upgrade
4.0
A-Z Logical path 2 (0 regen) λ upgrade
Qmin
A-Z Logical path 3 (0 regen) λ upgrade
Qmin
A-Z Logical path 4 (0 regen) λ upgrade
Qmin
A-Z Logical path 1 (1 regen)
Qmin
A-Z Logical path 2 (1 regen)
Qmin
A-Z Logical path 3 (1 regen)
Qmin
A-Z Logical path 4 (1 regen)
5
A-Z Logical path 1 (1 regen) λ upgrade
Qmin
A-Z Logical path 2 (1 regen) λ upgrade
5.5
A-Z Logical path 3 (1 regen) λ upgrade
Qmin
A-Z Logical path 4 (1 regen) λ upgrade
Qmin
A-Z Logical path 1 (1 regen) λ upgrade
6
A-Z Logical path 2 (1 regen) λ upgrade
Qmin
A-Z Logical path 3 (1 regen) λ upgrade
Qmin
A-Z Logical path 4 (1 regen) λ upgrade
Qmin
A-Z Logical path 1 (1 regen) λ upgrade
Qmin
A-Z Logical path 2 (1 regen) λ upgrade
Qmin
A-Z Logical path 3 (1 regen) λ upgrade
6.5
A-Z Logical path 4 (1 regen) λ upgrade
Qmin
A-Z Logical path 1 (2 regen)
7
A-Z Logical path 2 (2 regen)
>7
A-Z Logical path 3 (2 regen)
Qmin
A-Z Logical path 4 (2 regen)
Qmin
A-Z Logical path 1 (3 regen)
>7
A-Z Logical path 2 (3 regen)
>7
A-Z Logical path 3 (3 regen)
Qmin
A-Z Logical path 4 (3 regen)
Qmin

FIGURE 6A

FIGURE 6B

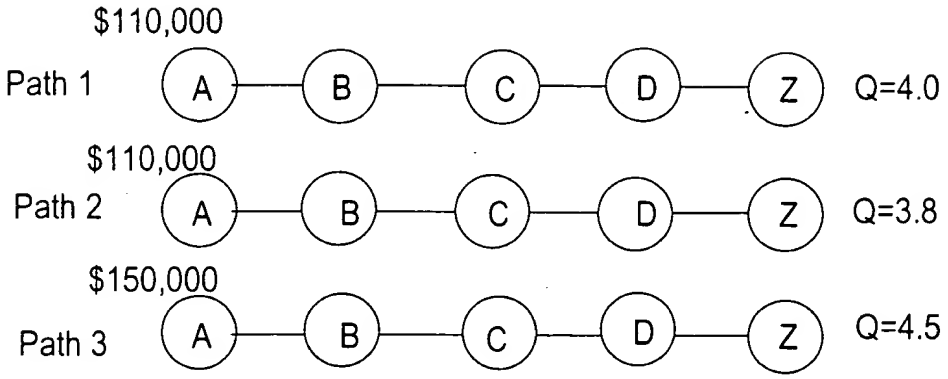
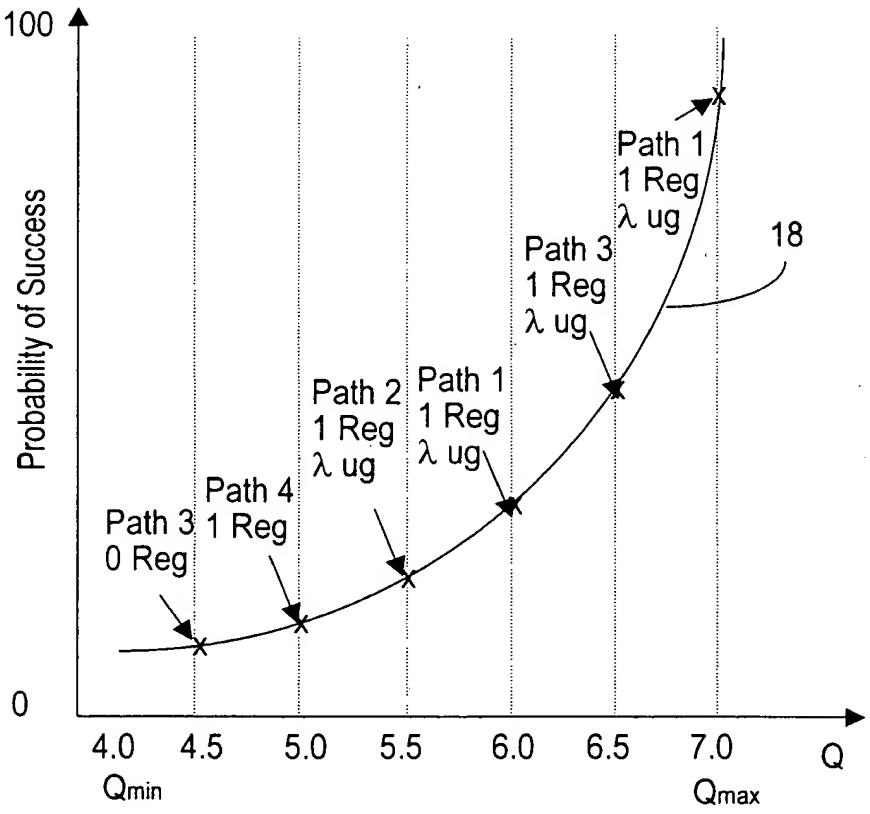


FIGURE 6C



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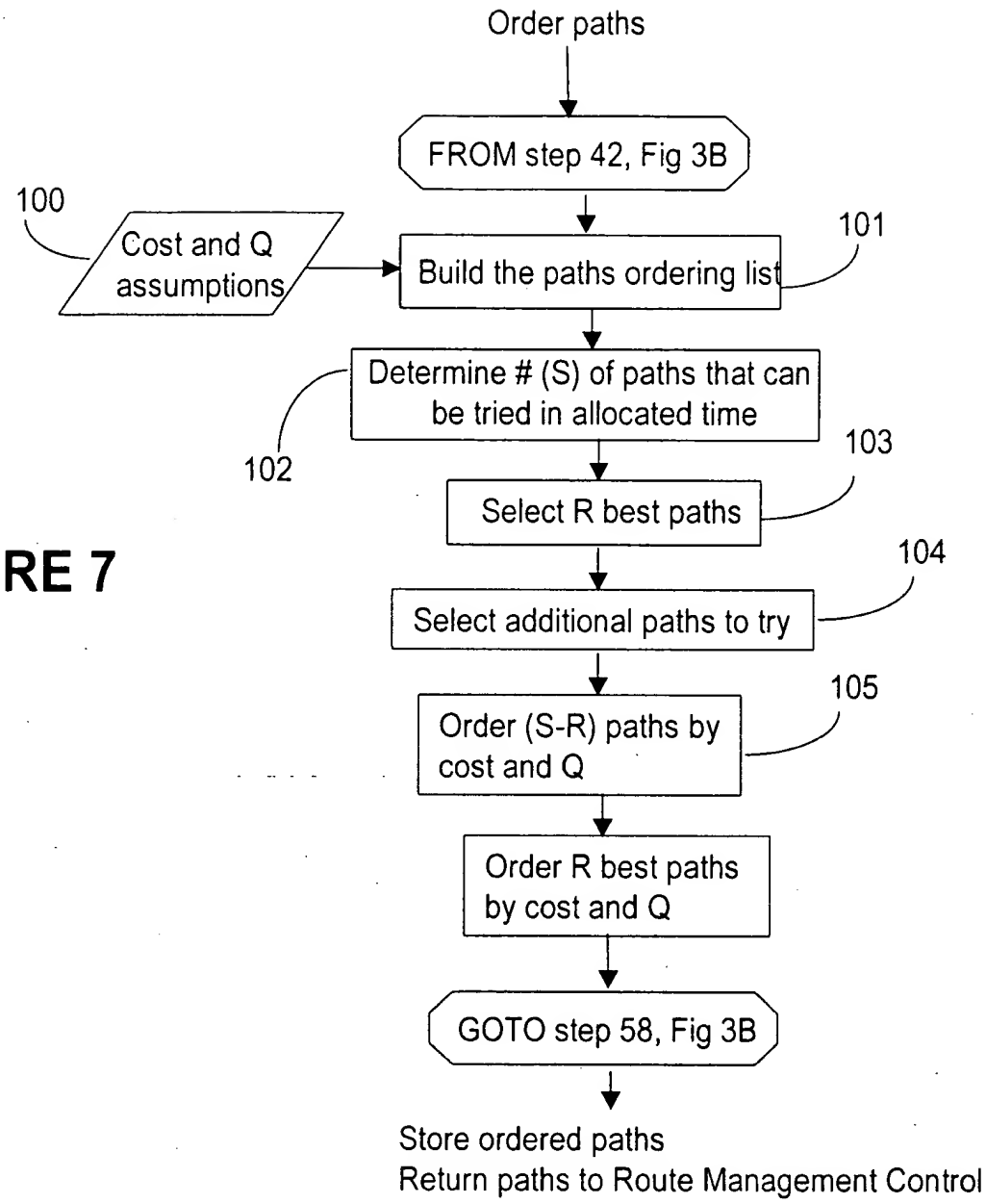
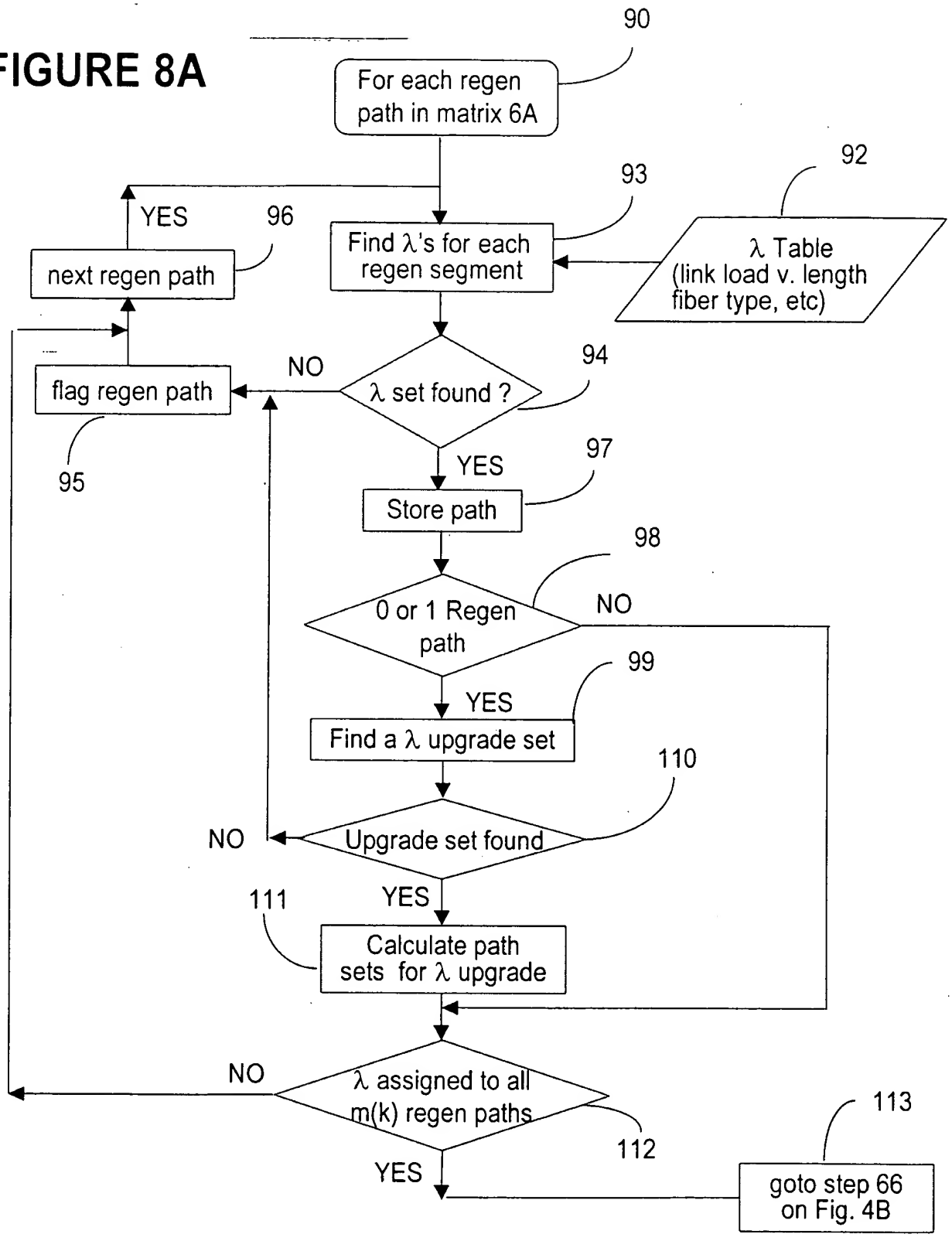


FIGURE 7

FIGURE 8A



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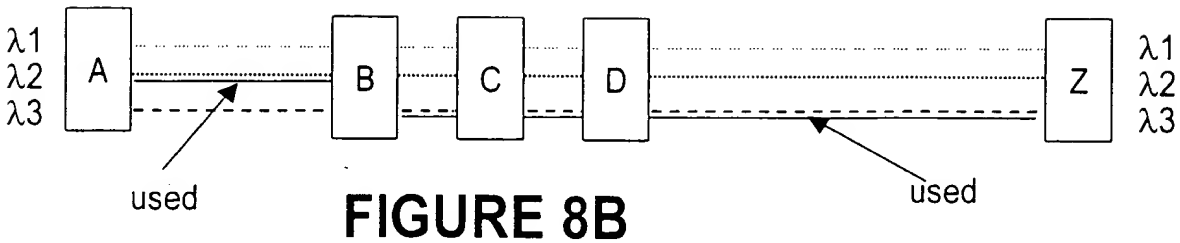

FIGURE 8B

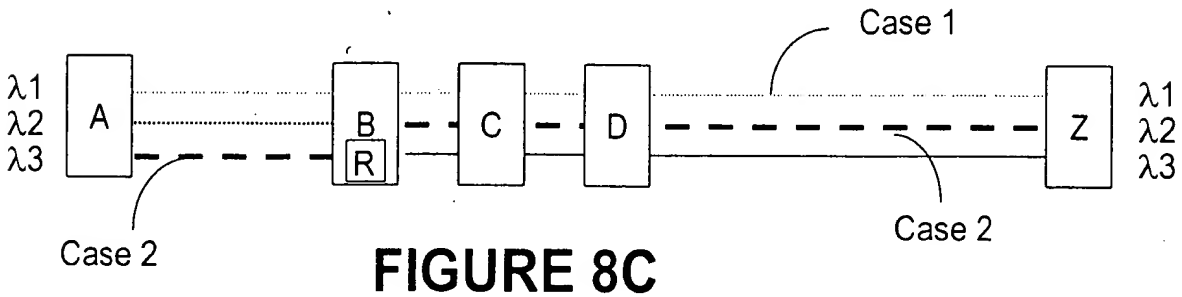

FIGURE 8C

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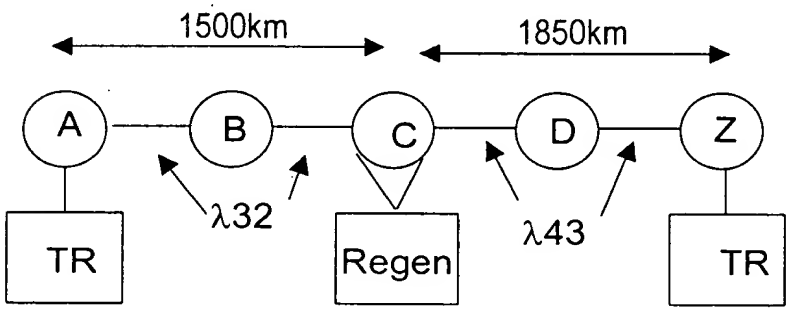

FIGURE 9